

RHODORSIL[®] TCS 7534 A & B

Description RHODORSIL TCS 7534 A & B is a two-component heat curing liquid silicone elastomer which cures by a polyaddition reaction. All products from the Textile Coating System product line are specially engineered for textile coating applications.

- Advantages**
- High bond strength without primer on textiles from different origins.
 - Allows very low coat weights (< 30 g/m²).
 - Provides high tear strength and high comb stripping resistance to the coated fabric.
 - Low thermal conductivity (high insulation properties).
 - Long bath life at room temperature (> 16 h).
 - Fast cure at elevated temperature.
 - Solventless technology.
 - Low viscosity and easily pumpable to sustain high coating speed.

Applications Technical textile coatings, such as coated airbags, industrial and high performance fabrics.

Characteristics **1. Before mixing**

	RHODORSIL TCS 7534 A	RHODORSIL TCS 7534 B*
Appearance.....	Viscous liquid	Viscous liquid
Colour.....	white	Transparent
Specific gravity, approx.	1.13	1.0
Viscosity at 25°C, mPa.s	44,000	47,000

(Measured with Brookfield viscometer, needle n°6, speed 5rpm)

* Other colours may be available upon request.

2. Mixing the two components

RHODORSIL TCS 7534 A 100 parts
 RHODORSIL TCS 7534 B Catalyst..... 10 parts

Pot life of mixture at RT, approx..... 16 h
 Viscosity of the mix at RT, mPa.s 45 000
 Curing time at 160°C, approx..... 1 min

3. Mechanical properties of the cured material

(measured after cross-linking 10 min at 150°C + 30 min at 23°C)

Hardness, Shore A, approx..... 42
 Tensile strength, MPa, approx. 4.7
 Elongation at break, %, approx 200
 Tear strength, KN/m, approx..... 9.3

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4. Application properties of the coated textile

(coating of 50 g/m² on 235 dtex nylon 6,6)

Flex abrasion resistance (ISO 5981A), cycles > 500
 Comb stripping resistance (DIN 54301), N..... 650
 Tear strength (ISO 13937), N..... 130
 Blocking (ISO 5978)..... none
 Flame resistance (FMVSS 302) in mm/min, approx 50
 Air permeability at 500 Pa (DIN 53887), l/dm²/min, env ≈ 0

Non tackiness :

Coefficient of Friction (ISO 8295)..... < 0.4

Processing

- Some fillers may settle during transport and storage. To ensure a uniform mix, the components should be thoroughly stirred prior to use.
- Adhesion depends on the curing conditions. A preliminary test is recommended to determine optimum cure conditions.
- In case of hand mixing, degas the mix under vacuum 3-5 kPa before pouring.
- Curing inhibition may occur in contact with certain materials containing **tin salts**, **amines** or **sulphur**. A preliminary test is recommended.

Packaging

RHODORSIL TCS 7534 A can be delivered in 200 kg containers,
RHODORSIL TCS 7534 B can be delivered in 25 or 200 kg containers.

Storage and shelf life

For its shelf life, please refer to the expiry date (best before « month-year ») marked on the packaging.

To preserve all the properties of **RHODORSIL TCS 7534 A & B**, the following conditions must be observed:

- The original closed packs must be kept at a temperature between - 20 °C and + 30 °C.
- The products must be used as soon as the packs are opened.

Safety

Consult the Safety Data Sheets of **RHODORSIL TCS 7534 A & B**.

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Visit our website www.bluestarsilicones.com

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